

Name: _____

CS21 Lab 4 Written Part – Due: Fri, Oct. 4, beginning of class

```
1 def main():
2     print("in main")
3
4     a = 4
5     b = 8
6     val = 6
7
8     answer = secret(a, b, val)
9
10    # see Question 2
11    print("answer: " + str(answer))
12    print("val: " + str(val))
13
14
15 def secret(x, y, number):
16     print("in secret")
17
18     # see Question 3
19     if (x < number):
20         number = y
21
22     # Draw stack at this point in execution
23     return number
24
25 main()
```

DRAW STACK HERE

1. To the right of the program code (in the area beneath DRAW STACK HERE), draw the stack as it appears when the program reaches line 22.
2. At line 10 (marked *# see Question 2*), what variables are currently in scope? That is, what variables can you refer to in `main` on line 10 without getting a runtime error.
3. At line 18 (marked *# see Question 3*), what variables are currently in scope? That is, what variables can you refer to in `secret` on line 18 without getting a runtime error.
4. Below, give the output that would be produced by running the whole program to completion: